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Notice of Allowability	Application No.	Applicant(s)
	10/016,187 Examiner	MCCOMAS, DAVID JOHN Art Unit
	Kalimah Fernandez	2881

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 6-17-04.
2. The allowed claim(s) is/are 15 and 18-41.
3. The drawings filed on 12 December 2001 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. <input type="checkbox"/> Notice of References Cited (PTO-892)	5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____.
3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____.	7. <input type="checkbox"/> Examiner's Amendment/Comment
4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
	9. <input type="checkbox"/> Other _____.

DETAILED ACTION

Allowable Subject Matter

1. Claims 15 and 18-41 are allowed. The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach or fairly suggest the claimed invention.
2. Specifically, neither Mendenhall et al nor Richardson teach or fairly suggest the use of "a start detector for counting electrons generated from the SEES; and a stop detector for counting particles transmitted through the SEES" as recited in claim 15.
3. Similarly, no teaching or obvious suggestion was found of the limitation "a secondary electron emission surface (SEES) in the flight path of particles that were previously detected by the start detector, the SEES operable to transmit the particles and to produce stop electrons from the particles at the output side of the SEES" in combination with the other recited limitation of claims 35 and 36.
4. Furthermore, no teaching or obvious suggestion was found of the limitation "detecting the secondary electrons at a start detector; detecting particles transmitted through the SEES at a stop detector; and placing a suppression grid in the electron flight path in front of the start detector, the

grid being made from a conductive material such that it may receive an applied voltage and the grid operable to actively repel a portion of the electrons, such that they do not reach the start detector through the grid, with the portion of repelled electrons being determined by the amount of applied voltage" in combination with the other recited limitation of claim 25.

5. Likewise, no teaching or obvious suggestion was found of the limitation "a first secondary electron emission surface (SEES) for transmitting the particles and for producing start electrons from the particles at the output side of the first SEES; a start detector for detecting electrons generated from the first SEES; a first suppression grid placed in an electron flight path in front of the start detector, the grid being made from a conductive material such that it may receive an applied voltage and the grid operable to actively repel a portion of the electrons, such that they do not reach the start detector through the grid, with the portion of repelled electrons being determined by the amount of applied voltage" in combination with the other recited limitations of claims 38 and 40.

6. Claims 16-24,37-39 and 41 are allowed by virtue of their dependency.

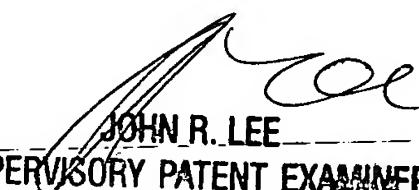
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays,

should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kalimah Fernandez whose telephone number is 571-272-2470. The examiner can normally be reached on Mon-Tues 6:30-3:30; Wed-Thurs 8-5 and Fri.9am-6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on 571-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



JOHN R. LEE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kf
